

JET PROPULSION LABORATORY California Institute of Technology • 4800 Oak Grove Drive, Pasadena, California 91103

641-14-03-46-55

Application of Skylab Multispectral
Photography and Scanner Images to Geological
Investigation of the Basin-and-Range-Colorado
Plateau Boundary in North Central and Central Arizona

Alexander F. H. Goetz
Principal Investigator

E73-11042

Progress Report 1 August-31 August 1973

CR-133923

25 September 1973

Overall Status

The first S-190 data was received from tracks 6 and 16. Track 16 still lies to the east of area of interest in spite of the 60 mile westerly drift on SL-2. Track 6 therefore also lies too far west, and in fact, only barely covers the Red Lake test site. These photos will be digitized for comparison with the Red Lake spectra obtained on June 3.

The screening film for S-192 was received. Most unfortunately, the Red Lake test site lies outside the field of view. We plan to process one of the S-192 frames. However, because of the limited scope of the investigation, only comparison with existing geologic maps will be made.

The Red Lake test site was occupied during an SL-3 overflight on 11 August. Again the S-191 was not directed at our site. The weather was excellent although the sun angle was very high for photos useful in geologic interpretation.

Recommendations

Please send the color photography from SL-2/S-190.

Expected Accomplishments

A test CCT has been received and it is hoped that we can be prepared for the receipt of S-192 data. Enlargements are being made from the appropriate S-190 frames for the purpose of transferring map material. Spectra are being reduced so that comparisons can be made with the SL-3/S-190 data.

Significant Results

None to report.

Summary

See Status and Accomplishments sections.

Travel Summary

One trip by JPL vehicle was made to the Red Lake test site.

E73-11042) APPLICATION OF SKYLAB
MULTISPECTRAL PHOTOGRAPHY AND SCANNER
IMAGES TO GEOLOGICAL INVESTIGATION OF THE
BASIN-AND-RANGE-COLORADO PLATEAU (Jet
Propulsion Lab.) 1 p HC \$3.00 CSCL 08H

N73-31343

Unclass
01042

G3/13

made available under NASA sponsorship
the interest of early and wide dis-
tribution of Earth Resources Survey
gram information and without liability
any use made thereof."